

WHAT IS CLAIMED IS:

1. A mobile communication terminal comprising:

a display unit for displaying a character;

5 a voice input unit through which a speech sound is inputted;

a storage unit for storing reference phoneme models of respective feature vectors of phonemes of the input speech sound; and

10 a controller for segmenting the speech sound inputted for the displayed character into the phonemes, extracting respective feature vectors from the phonemes, and generating and storing the reference phoneme models based on the extracted feature vectors respectively.

15 2. The mobile communication terminal according to claim 1, further comprising a keypad for inputting a character to be displayed on the display unit.

20 3. The mobile communication terminal according to claim 2, further comprising an RF module for wirelessly receiving an SMS message containing a character to be displayed on the display unit.

25 4. The mobile communication terminal according to

claim 3, wherein the controller segments an input speech sound into phonemes, extracts respective feature vectors from the phonemes, and performs pattern matching between the extracted feature vectors and stored reference phoneme models of respective feature vectors of phonemes, thereby
5 recognizing the input speech sound.

5. A phoneme modeling method comprising the steps of:
receiving an input speech sound corresponding to a
10 displayed character;
segmenting the input speech sound into phonemes;
extracting respective feature vectors from the phonemes; and
generating and storing reference phoneme models based
15 on the feature vectors respectively.

6. The method according to claim 5, further comprising the step of:
receiving an input character and displaying the
20 character on a display unit.

7. The method according to claim 5, further comprising the step of:
wirelessly receiving information of a character and
25 displaying the character on a display unit.

8. The method according to claim 7, wherein the information of the character includes an SMS message.

5 9. A voice recognition method comprising the steps of:

a) receiving an input speech sound corresponding to a displayed character;

b) generating and storing reference phoneme models of feature vectors corresponding respectively to phonemes of the speech sound;

c) receiving an input speech sound;

d) segmenting the input speech sound into phonemes, and extracting respective feature vectors from the phonemes; and

15 e) recognizing the speech sound by performing pattern matching between the extracted feature vectors and said stored reference phoneme models of the feature vectors.

20 10. The method according to claim 9, wherein said step b) includes the steps of:

segmenting an input speech sound into phonemes;

extracting respective feature vectors from the segmented phonemes; and

25 generating and storing reference phoneme models respectively for the phonemes based on the extracted feature

vectors.

11. The method according to claim 10, further includes the step of:

5 receiving an input character and displaying the input character on a display unit.

12. The method according to claim 10, further includes the step of:

10 wirelessly receiving information of a character and displaying the character on a display unit.

13. The method according to claim 12, wherein the information of the character includes an SMS message.

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